

Ch. 8 Review Pg. 334 #4, 7, 8, 11 – 13, 17, 21, 22

4. nuclear fusion

7. The electrically charged plasma in the prominence allows the prominence to be shaped by the magnetic field of the Sun.

8. Solar wind is a flow of electrically charged particles emitted by the Sun.

11. A comet is a celestial object made up of ice and dust.

12. Rotation refers to Earth spinning on its axis. Revolution refers to the path Earth takes orbiting the Sun.

13. (a) Moon phases are caused by the Moon's revolution around Earth. Depending on its position, different portions of the Moon's face are lit by the Sun.

(b) eight

17. The gas giants orbit at a distance beyond the "snow line," where water can form ice. This helped these planets collect material more easily than inner planets could.

21. Summer occurs because part of Earth receives sunlight more directly for part of the year. Summer's occurrence is not related to Earth's distance from the Sun.

22. In a solar eclipse the Moon is in a line between the Sun and Earth. In a lunar eclipse, Earth is in a line between the Sun and the Moon.